CP8L LCD

INSTALLATION INSTRUCTIONS

Contents

Introduction 1
- Display Status Blanking 1
- Pre Setting Error Check 1
- Battery Fuse 2
- Mains Safety 2
- Good Working Practice 2

Installation 3
- Control Panel Location 3
- Mounting the Control Panel 3
- Mounting the RKP 3

Wiring 4
- General Detector Wiring 4
- Wiring Global Tampers 4
- Wiring Contacts . . . . . 4 - 5
- Wiring Passive Infra-Red Detectors 5
- General Bell Box Wiring 6
- Bell Tamper Ring 6
- Sample Bell Box Connections . . . . . 6 - 7
- Wiring Notes 8
- Control Panel Connections 8

Programming 9
- Terminology 9
- Engineer Programming Mode 10
- Engineer Access - Programming Zones . . . 10
- Programming Exit / Entry Times - Quick Set 13
- Programming Bell & Panic 15
- Programming PGM1 Output 16
- Programming Reset & Keypad 17
- Engineer Reset (After an Alarm) 18
- Anti Code Reset 18
- Resetting to Factory Defaults 19
- Log Mode (EN Only) 19
- Changing Log Mode (Non EN Panels) 19

Troubleshooting . . . . . 20 - 21

Specifications . . . . . 22 - 23

System Details 23

Changing the Engineer Code 24

Introduction

The eurosec control panel is supplied as a blank fronted end station complete with LCD RKP. Up to 3 additional keypads may be fitted if required. The unit is fully programmable by the installation engineer and comes pre-programmed with a set of factory defaults that will suit most installations. Eight programmable zones are available on the CP8.

The Control Panel will have been supplied with either an icon style keypad or text style keypad. Please follow the instruction relevant to your keypad style. Text commands will be shown in brackets.

Icon style keypad	Text style keypad
	Full
	Part
	Quick
	Yes
X	No

Note: It may be required that an engineer has to be authorised by a user before access to the engineer mode is granted.

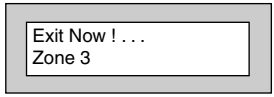
Display Status Blanking

Depending on Control Panel installed, It may be a requirement that the Status (Set or Unset display) of the security system is not displayed, Set or Unset Status will only be displayed for ten seconds when the system is Set or Unset. The bottom line of the display will then be blanked off.

If the Control Panel is **non EN** then all displays will be shown.**"CHECK"** will not be displayed.

Pre Setting Error Check

At the start of the setting procedure any non exit routes that are open will show a fault tone. The display will show, for example:-



If the fault clears within 20 seconds then the exit will begin, if not, the fault tone will continue until a valid User code is entered.

IMPORTANT!

Input: AC230V +/-10% ~50Hz 125mA Max. 35W Max

For Indoor Use Only

Nominal Temp Range: 0° - 50° Centigrade

This equipment is intended only for use as a Security Alarm Control Panel. Adequate ventilation away from heat and humidity must be provided. The unit must be fixed securely to a non-flammable surface using suitable fixings.

All mains wiring must be to the relevant current IEEE wiring regulations (or appropriate international regulatory standards). See relevant section within this manual for connection to mains supply.

Provision is provided for an earth connection within the mains connection block, this is for the protection of the wiring and is not a functional part of the unit.

All low voltage (alarm) wiring must be to the appropriate international regulatory standards and comply to good wiring practice.

Replacement fuses should be of the same type and rating conforming to IEC127.

The maximum current draw from the unit for all output combinations **must not exceed 1*Amp**. ***(See page 23 for further information).***

The unit is intended for use with a suitable re-chargeable battery permanently connected to the appropriate terminals.

Battery Fuse

An in-line Battery Fuse has now been incorporated into this product. The fuse rating is 2 Amp Anti-Surge. The fuse holder is spring loaded, therefore you should ensure that the battery lead is not under tension in order to maintain a good connection between the fuse and the holder.To change the fuse, push the two halves of the holder together and twist anti-clockwise. Please ensure correct battery charge on completion of the installation and during each service visit.

Mains Safety

The main unit must be connected to a mains supply via a 3 Amp unswitched fused spur. This must be carried out by a suitably qualified electrician. If you are in any doubt please contact your local electricity company for advice.

Good Working Practice

The reliability of any security system may be greatly enhanced by following a few good working practices. Do not connect the mains supply to any rings that have fridges, freezers or fluorescent lights connected to them. When running low voltage alarm cables, avoid running parallel to mains wiring, if you do so, separate by a least nine inches. When crossing mains cables, do so at 90°

Control Panel & RKP Location

Consideration needs to be given to the location of the Control Panel & LCD RKP with regards to-

The surface that the unit(s) are to be fixed to should be firm, vibration free, damp free and fire resistant.

Access for the routing of mains and low voltage wiring.

Service Access to the unit(s).

Operation of the keypad.

Readability of the LCD RKP display(s).

Mounting the Control Panel

Unscrew the two cover retaining screws and remove the front cover.

The PCB is held in place by two lower PCB retaining lugs and two upper sprung latches. Push both upper latches upwards and pull the PCB forward and upward in one movement.

With the PCB removed from its retainers offer the unit to the wall and mark for the three fixing points. **Under no circumstances should you drill through the base.**

Remove any knockouts that are required from the base and also the cover screw caps from the moulding pips in the base and retain them for use after fixing the front cover in place.

Using suitable rawl plugs and 3 No.8 x 1.5" (min) screws fasten the base to the wall but do not tighten until all cabling is in place.

Mounting the RKP

Lower the front cover of the RKP and unscrew the single cover fixing screw.

Offer the RKP base to the wall and mark the three fixing positions. **Under no circumstances should you drill through the base.**

Remove one of the cover screw caps and retain for use after fixing the front cover.

Using suitable rawl plugs and 3 No.6 x 1" (min) screws fasten the base to the wall offering the connecting cable through a suitable aperture in the base as you do so.

Wire the LCD RKP as shown in the wiring section of this manual.

Replace the cover and tighten the cover fixing screw.

When finished put the cover screw cap in on the cover screw and push into place.

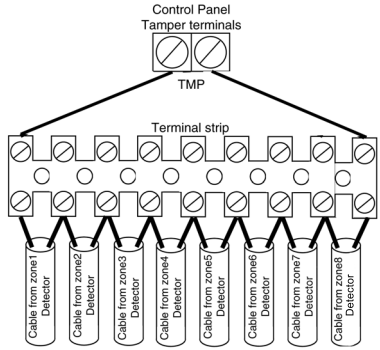
General Detector Wiring

We would strongly suggest that you adopt a colour scheme for the detector wiring of your system. This will enable you to quickly determine the source of any problems that may occur. The security industry does not have recommended colour schemes because of the nature of the wiring, one suggested scheme is given below.

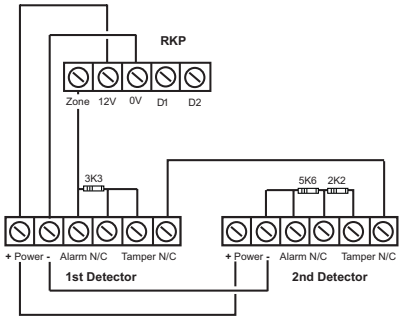
Wiring Global Tampers

One pair of tamper terminals is provided on the control panel PCB for tamper protection of the zones. This is termed as a Global Tamper, one simple method of wiring Global Tampers is shown in Fig. 1 below.

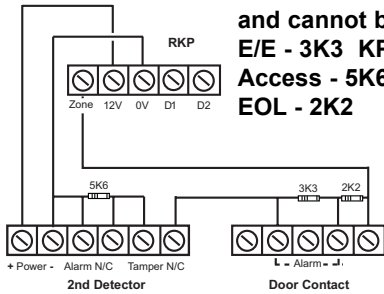
Fig. 1 Wiring Global Tampers



Wiring RKP Zones (480 text RKP ONLY)



Note: Both detectors must be run on a single cable from the Control Panel to the first detector then the second. The 2K2 resistor must be in the last/final detector.



Note: Keypad zones (480 text RKP ONLY) are preset and cannot be changed.
E/E - 3K3 KP Zone 1
Access - 5K6 KP Zone 2
EOL - 2K2

Wiring Contacts

Many types of contacts are available and fall in to two categories, surface or flush. The method of operation is the same for both. One half of the contact is fitted to the door or window frame, inside is a reed switch that is pulled together in the presence of a magnetic field. The other half that is fitted to the opening section of the door or window contains the magnet. These devices are referred to as normally closed (NC or N/C). The gap allowed for reliable operation will vary (usually between 5mm & 20mm) dependant on the model used, you should check this specification with your supplier before fitting.

In Figs. 2 & 3 we have used 5 screw surface contacts for clarity of the illustration.

Fig. 2 Wiring Single Contact

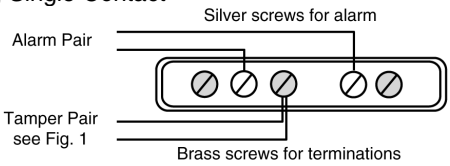
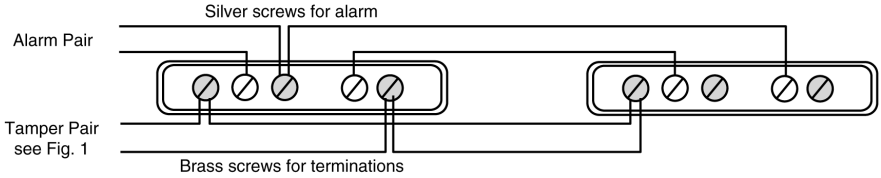


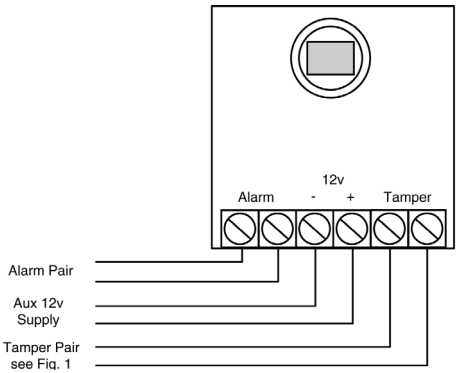
Fig. 3 Wiring Double Contact (on the same zone)



Wiring Passive Infra-Red Detectors

It is essential when using Passive Infra-Red Detectors that you refer to the manufacturers instruction as to the positioning and settings of the detector. This section is intended as a guide to the wiring of the detectors.

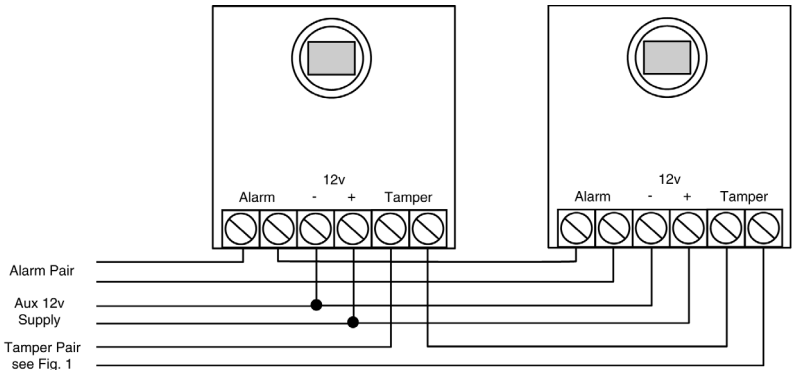
Fig. 4 Wiring Single PIR



Notes
Positions of terminals will vary according to make.

All PIR wiring diagrams apply also to Dual Technology Detectors and Vibration sensors.

Fig. 5 Wiring Double PIR (on same zone)



General Bell Box Wiring

As with the detector wiring we would suggest that you adopt a standard for your Bell Box wiring, the colour scheme below is provided as a suggestion only.

Hold Off Supply +..... Red

Hold Off Supply - .... Black

Trigger..... Blue

Tamper Return..... Yellow

Strobe +..... Green

Strobe -..... White

Bell Tamper Ring

It should be noted that many bell boxes that are fitted with rechargable batteries will sound when the battery is connected. This connection may take the form of manually connecting the battery wires to terminals or placing a link into the On position. Depending on the bell box being used, the sounder may sound when the battery is connected unless power from the control panel is connected or the bell box tamper is closed or in some cases both. **Most bell boxes produce high volume noise adequate ear protection MUST be used.**

Sample Bell Box Connections

Below is shown general and sample bell box connections for some of the popular bell boxes that are available.

Fig.6A

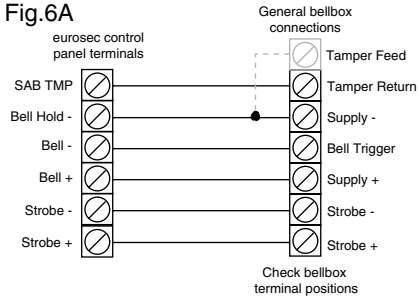


Fig.6B

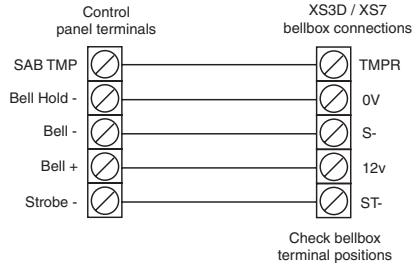


Fig.6C

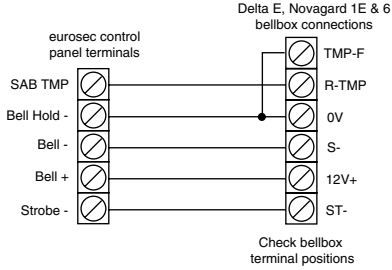


Fig.6D

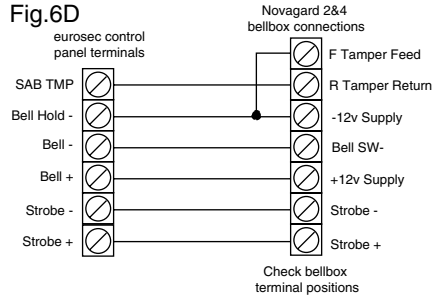


Fig.6E

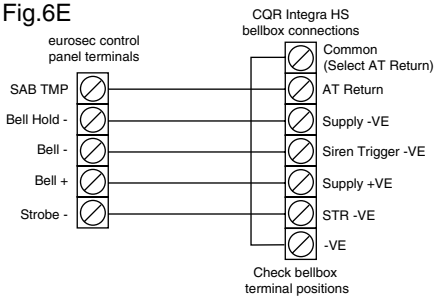


Fig.6G

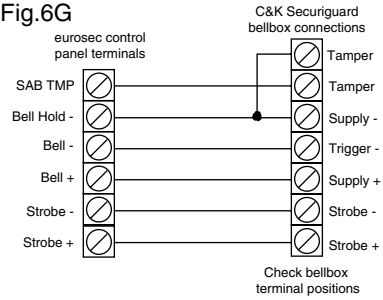


Fig.6I

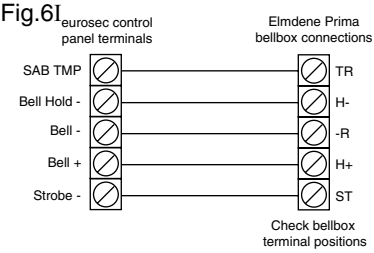


Fig.6K

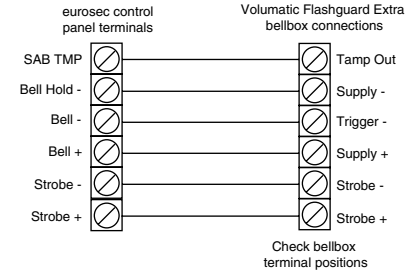


Fig.6F

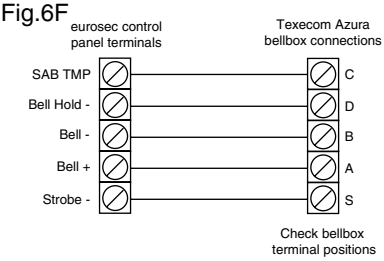


Fig.6H

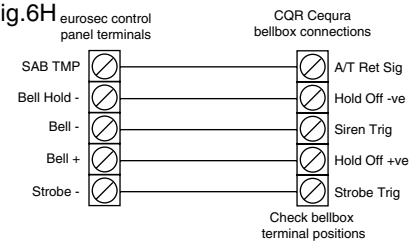


Fig.6J

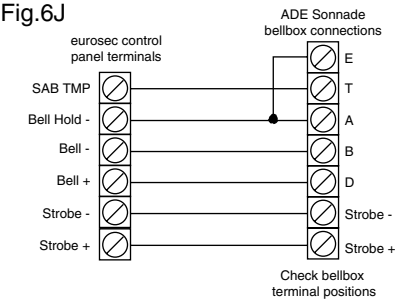


Fig.6L

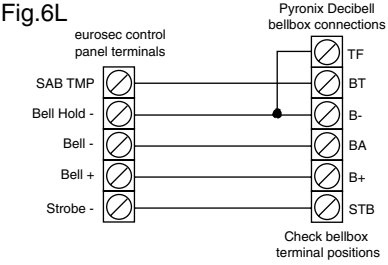
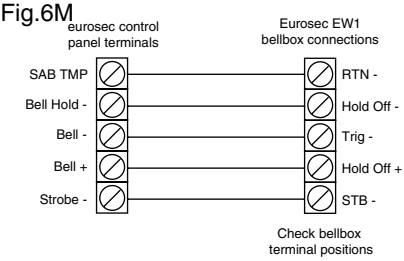


Fig.6M



Wiring Notes

The 680 Ohm resistor (provided) must be fitted across 12v & D1 at the last RKP in line.

2 x RKP zones only on 480 (Text) RKP

Maximum current draw from the panel MUST NOT EXCEED 1Amp*. (See Page 23 for further information). This includes all Bells, Sounders, Speakers, Detectors & RKPs etc. Battery recharge current must also be taken into consideration.

Max Output current for Strobe is 250mA.

Max Output current for Bell is 500mA.

Panel speaker volume may be adjusted via RV1 on the Control Panel.
Display contrast may be adjusted via RV1 on the RKP.

PGM1 sink current is 50mA
PGM1 is pulled high 1K pull-up resistor

Minimum impedance for Speaker is 16 Ohm in any speaker configuration.

Please refer to the Wiring Global Tampers section for details of wiring multiple tampers.
Multiple detectors fitted to a single zone should have the alarm contacts wired in series. Please see detector wiring section for more details.
Any N/O devices such as pressure pads should be wired across the Global Tamper and the zone required. The zone terminals should remain shorted. When connecting the battery to the unit please ensure correct polarity.

Fig. 7 Control Panel Connections

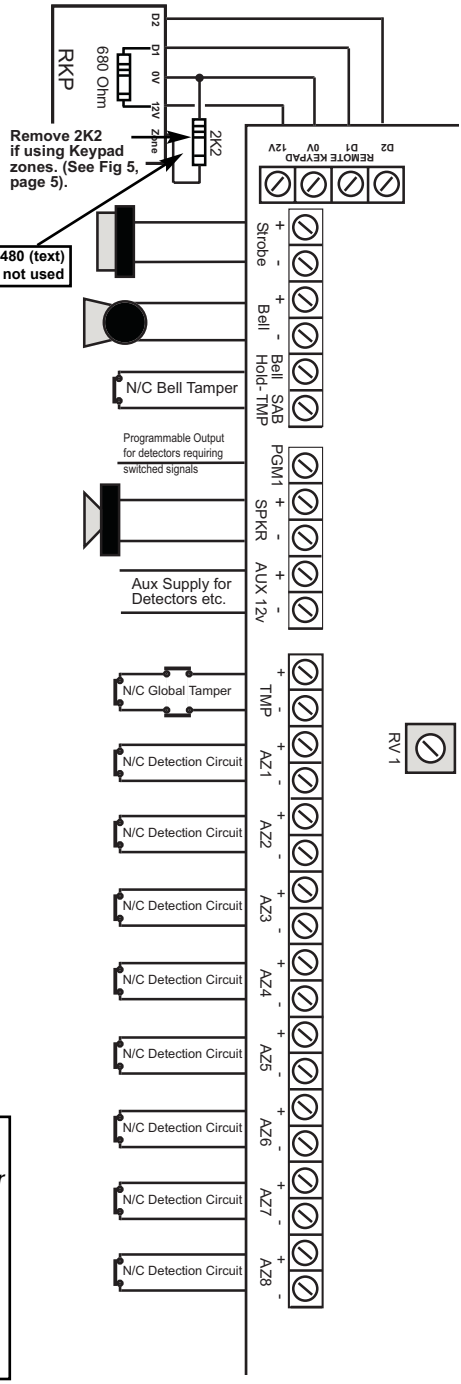
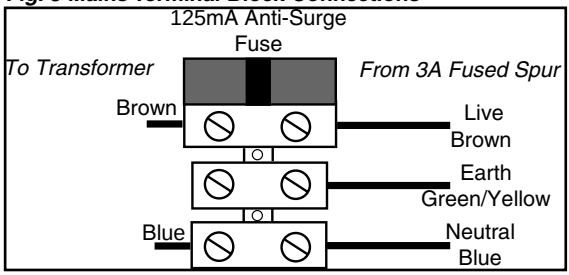


Fig. 8 Mains Terminal Block Connections



Terminology

Various terms are used throughout this manual that may be unique to the eurosec control panel. This section gives brief details of this terminology.

Zones
12Hr
A zone programmed as 12Hr is active when the system is set.

E/E
Entry/Exit Zone. If violated when the system is SET will start the Entry Time. May also be used to terminate the Exit Time dependant on the Setting Mode being set to E/E or Time+ E/E.

Access
An Access Zone will allow violation during Exit or Entry mode. Violation at other times will result in instant alarm.

Panic
24Hr protection for devices such as Panic Buttons etc.

24Hr
A 24Hr Zone will give internal speaker if violated when the system is unset or full sounders when set.

Fire
Active 24Hrs when violated gives internal speakers + Pulsed External.

Alert
Internal Speaker only.

ET
Exit Terminator. Will terminate the Exit Time provided Setting Mode is set to E/T.

Part E/E
Will act as Entry/Exit whilst part-set.Will act as Access at all other times.

Zone Modes

Biased Keyswitch
Available for zone 5 only. Will Set/Unset the system.

Part 1, Part 2, Part 1&2
Zones set as a particular Part-Set will be omitted when that Part-Set is used. Part 1&2 refers to Part-Set 3

Chime
Zones set as Chime will chime when violated with the system unset.

System

ET	Exit Terminator (Button).
E/E	Entry/Exit (Timed/Zone).
Part Set Sounders	Sounder Mode during Part-Setting.
Alert Keys	Pressing keys 1&3 simultaneously.
SAB	Self Actuating Bell.
SCB	Self Contained Bell.
Reset	To return panel to normal after an alarm.
Engineer Code	Code that allows the installation engineer to program and use the system.
User Code	Code that allows end user(s) to operate the system. Up to nine users may be programmed onto the system.
Confirm	Confirmation of successful setting via the strobe light.

Engineer Programming Mode

Several options are available via the Engineer code (**1234** factory default). These are

a) **Setting and Unsetting of the system.**

b) **Engineer/User Options**

System Test	Delete Zone(s)	Chime On/Off
Program Code	Set Time/Date	View Log

c) **Program Engineer Options**

Details of items a and b are given in the User manual. Please refer to it when programming these modes. It should be noted that when programming the code from engineer mode, it is the engineer code that is being programmed, no option for user codes is given. If the engineer code begins with a 9, the code will be locked and may only be changed by re-use of the code. Re-setting the system will have no effect.

IMPORTANT INFORMATION

To achieve EN compliance this Control Panel may only be used with newer RKPs that have V1.8 or above firmware. The firmware version will be shown on the display on power-up.

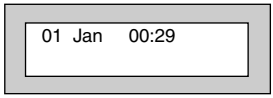
This section gives step by step instructions on programming the system. Please ensure that you understand each option before making any changes.

Engineer Access - Programming Zones

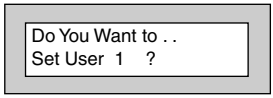
In order to access Engineer Mode the **User MUST** start to set the system, then the **Engineer** must enter the Engineer code **TWICE.**

When programming a non EN control panel, the Engineer does not require User authorisation to gain access to Engineer mode. Go straight to step 5.

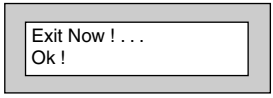
1) With the display showing:-
Enter the **User** code (default **5678**).



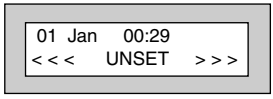
2) The display will show:-



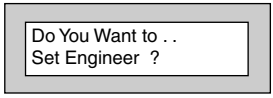
3) Press ↵ **(Yes)**. The display will show:-



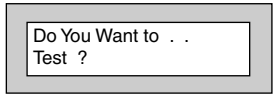
4) Before the exit tone stops, enter the Engineer Code. (**1234** default). The display will show:-



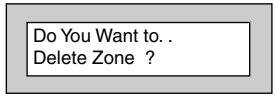
5) Enter the Engineer code again. The display will show:-



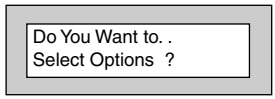
6) Press X **(No)**. The display will show:-
You are now in Engineer mode.



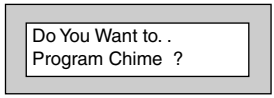
7) Press X **(No)**. The display will show:-



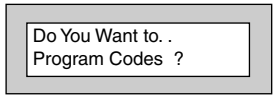
8) Press X **(No)**. The display will show:-



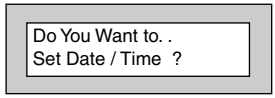
9) Press ↵ **(Yes)**. The display will show:-



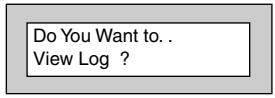
10) Press X **(No)**. The display will show:-



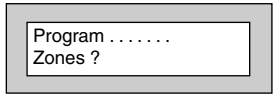
11) Press X **(No)**. The display will show:-



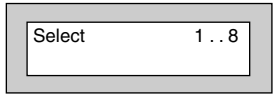
12) Press X **(No)**. The display will show:-



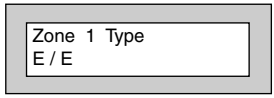
13) Press X **(No)**. The display will show:-



14) Press ↵ **(Yes)**. The display will show:-

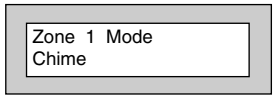


15) Select a number corresponding to the zone you wish to program. The display will show, for example:-



16) Press **X (No)** until the required zone type is displayed.
Note: *Please see page 9 for zone terminology.*

17) Press ↵ **(Yes)**. The display will show, for example:-

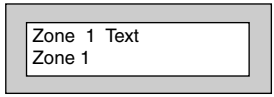


Note: *Zones required to be off in a particular Part Set and to chime in a unset condition select from one of the following:-*

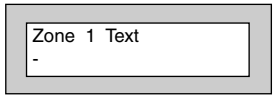
Options available	
Chime	Zone will chime in Unset.
Ch/P1	Zone will chime in Unset but will be omitted in Part Set 1.
Ch/P2	Zone will chime in Unset but will be omitted in Part Set 2.
Ch/P3	Zone will chime in Unset but will be omitted in Part Sets 1, 2 & 3.
Full	Zone will not chime & is not omitted in any Part Set.
Part 1	Zone will be omitted in Part Set 1.
Part 2	Zone will be omitted in Part Set 2.
Part 3	Zone will be omitted in Part Sets 2 & 3.

18) Press **X (No)** until the required zone mode (chime & part set attribute) is shown.

19) Press ↵ **(Yes)**. The display will show, for example:-



20) To accept the text shown press ↵ **(Yes)** or to change the text press **X (No)**. The display will show, for example:-

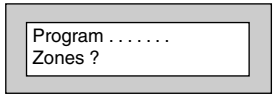


21) Text may now be entered as you would on a mobile telephone. The key allocation is shown below.

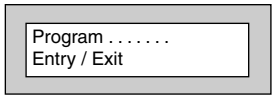
1 =	ABC	**2** =	DEF
3 =	GHI	**4** =	JKL
5 =	MNO	**6** =	PQR
7 =	STU	**8** =	VWX
9 =	YZ blank	**0** =	1234567890

After a character is selected press ↵ **(Yes)** to move on to the next. Up to 16 characters may be entered as a zone descriptor.

22) As the last character is entered, the programming will jump to the next zone. Repeat from step 16 until all zones have been programmed. To escape press **0**. The display will show:-



23) Press X **(No)**. The display will show:-



or

Press **0** twice to escape out of Engineer Mode.

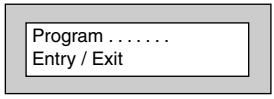
Programming Exit / Entry Times - Quick Set

Two entry times are available (Entry Time 1 & Entry Time 2). On entry to the premises via the entry door, the Entry Time 1 will start. If deviation from the entry route during entry time 1 then entry time 2 starts. Bells will not activate until Entry Time 1 has expired.

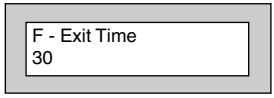
Note: *Entry Time 1 is programmable to a maximum of 45 seconds (30 seconds default). If an attempt is made to enter a time greater than 45 seconds the maximum (45 seconds) will be entered.*

Note: *Exit times. Full Set, Part 1, Part 2 & Part 3 exit times have a minimum times of 3 seconds. If an attempt is made to program a time less than 3 seconds the minimum (3 seconds) will be entered.*

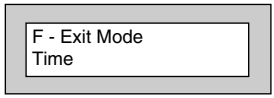
24) With the display showing:- Press ↵ **(Yes)**.



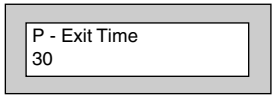
25) The display will show:-



26) Default Full Set Exit Time is 30 seconds. To change, press X **No** followed by time required. Then press ↵ **(Yes)**. The display will show:-

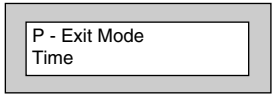


27) Press X (**No)** until the required Exit Mode is displayed followed by ↵ **(Yes)**. The display will show:-

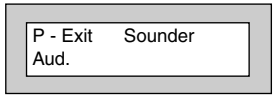


Options available	
Time	The system will Set after the time shown in the exit time.
T/EE	Once the user has started to Set the system the system will set on either the time expiring or the door opening and closing. This option may require a door contact.
ET	The system will set when the Exit terminator Button is pressed (this option will require a Zone to be programmed as Exit Terminator).
E/E	Once the user has started to Set the system the Exit tones will continue until the final exit door is opened and closed. This option will require a door contact.

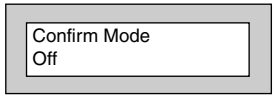
28) Default Part Set Exit Time is 30 seconds. To change, press X **(No)** followed by time required. Then press ↵ **(Yes)**.The display will show:-



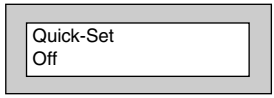
29) Press X **(No)** until the required Part Set Exit Mode is displayed. Then press ↵ **(Yes)**. The display will show:-



30) Press X **(No)** until the required Part Set Sounder Mode is displayed. Then press ↵ **(Yes)**. The display will show:-

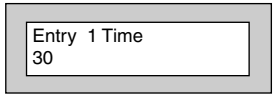


31) The Confirm Mode relates to strobe confirmation. Press X **(No)** until the required setting is displayed. Then press ↵ **(Yes)**. The display will show:-

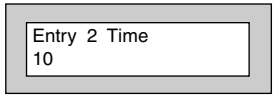


Note: *In previous CP8L versions it was possible to turn off the* ⏱ ***(Quick)*** *key function either from the engineer programming or by a power-on reset. The power-on reset has been removed and if the* ⏱ ***(Quick)*** *key function needs to be turned off/on (default off) it must be done from the Engineer programming mode.*

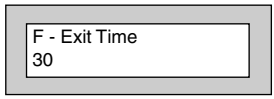
32) Press X **(No)** until the required setting is displayed. Then press ↵ **(Yes)**. The display will show:- *(Default 30 seconds)*.



33) Default Entry Time 1 is 30 seconds. To change, press X **(No)** followed by the time required. Then press ↵ **(Yes)**. The display will show:-

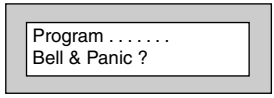


34) Default Entry Time 2 is 10 seconds. To change, press X (**No)** followed by the time required. Then press ↵ **(Yes)**. The display will show:-



Note: *Entry procedure is; Open entry door, entry time 1 starts. Entry time 1 runs to the programmed time or until there is a deviation from the entry route. Then Entry Time 2 starts, at the end of Entry Time 1 the bells will be activated.*

35) Press **0** to escape back one level. Then press X **(No)** to go to the next **Header.** The display will show:-

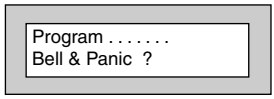


or

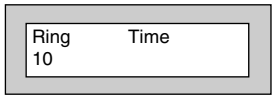
Press **0** three times to escape out of Engineer Mode.

Programming Bell & Panic

36) With the display showing:- Press ◄┘ **(Yes)**.



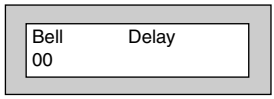
37) The display will show:-



38) Default Bell Time is 10 Minutes. To change, press X **(No)** followed by the required time.

Note: *Bell ring time is programmable to a maximum of 15 minutes The minimum time allowed is 1 minute.*

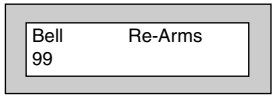
Then press ◄┘ **(Yes)**.The display will show:-



39) Press X **(No)** followed by the delay required.

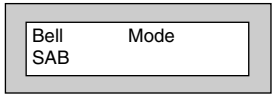
Note: *Be careful when using Bell delay, the bell will not sound for the period programmed after the alarm has been activated. Bell Delay used to be a Police requirement but is now not often used in the UK. It should only be programmed on systems that are fitted with communications devices.*

40) Then press ◄┘ **(Yes)**. The display will show:-



Note: *Re-Arms is the number of times the bell is capable of sounding during a Set period. It is normal to set this option to 3 or 4. If left at 99 the number of Arms is infinite.*

41) Press X (**No)** followed by the number of Bell Re-Arms. Then press ◄┘ **(Yes)**. The display will show:-



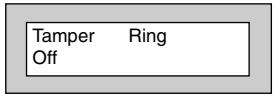
Two Types of Bell may be programmed.

SAB Self Actuating Bell. The Bell + terminal stands at 12V and the Bell -terminal switches negative on activation.

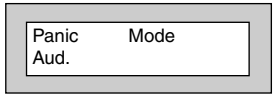
SCB Self Contained Bell. The Bell + and Bell - stand at 12V and 0v. The 0V is removed on activation.

The majority of Bells sold in the UK are SAB. You should only change the Bell Type if you are sure the Bell Type you have is SCB.

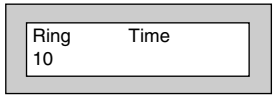
42) Press X **(No)** until the required Bell Mode is displayed. Then press ↵ **(Yes)**. The display will show:-



43) Press X **(No)** to set the Bell Tamper Ring Mode On or Off. Then press ↵ **(Yes)**. The display will show:-

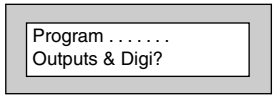


44) Press X **(No)** until the required Bell Panic Mode is displayed. Then press ↵ **(Yes)**. The display will show:-



Note: *Silent (Sil) should only be programmed on systems that are fitted with communications devices.*

45) Press **0** to escape back one level. Then press X **(No)** to go to the next **Header**.The display will show:-



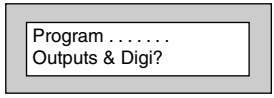
or

Press **0** three times to escape out of Engineer Mode.

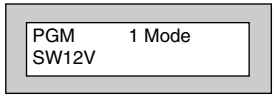
Programming PGM 1 Output

PGM 1 refers to the PGM1 terminal on the control panel PCB.

46) With the display showing:- Press ↵ **(Yes)**.

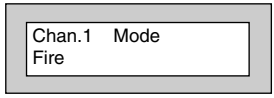


47) The display will show:-
Press X **(No)** until the required mode is displayed for PGM1.



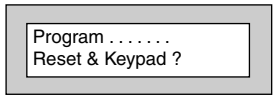
Options available	
SW12V	Normally used for latching sensors.
Puls-	Will stand at +12V and switch to 0V for three seconds when the user code is entered.
Bell	Will switch when the Bell is activates.
Strobe	Will switch when the Strobe activates.
Ex/En	Will switch when the Entry/Exit time starts.
Walk	Will switch when in walk test.
IntAl	Will switch when a tamper alarm activates.
Alarm	Will switch when the Alarm activates.
Panic	Will switch when Panic activates.
Puls+	Will switch for 3 seconds when the User code is entered.

48) Then press ↵ **(Yes)**. The display will show:-



Note: *Digi programming is no longer applicable on this Control Panel.*

49) Press **0** to escape back one level. Then press X **(No)** to go to the next **Header.** The display will show:-

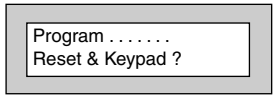


or

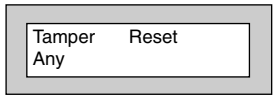
Press **0** three times to escape out of Engineer Mode.

Programming Reset & Keypad

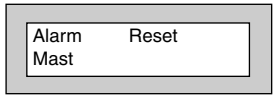
50) With the display showing:- Press ◄┘ **(Yes)**.



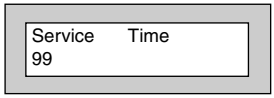
51) The display will show:-



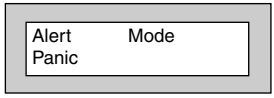
52) Press X **(No)** until the required Tamper Reset Mode is displayed. Then press ◄┘ **(Yes)**. The display will show:-



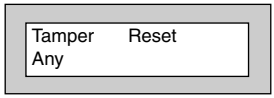
53) Press X **(No)** until the required Alarm Reset Mode is displayed. Then press ◄┘ **(Yes)**. The display will show:-



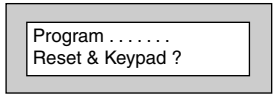
54) Press X **(No)** followed by the required number of weeks for the Service Timer. Then press ◄┘ **(Yes)**. (Note 99 = Off). The display will show:-



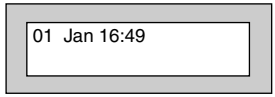
55) Press X **(No)** until the required Alert Mode **(Keys 1&3)** is displayed. Then press ◄┘ **(Yes)**. The display will show:-



56) Press **0** to escape back one level. The display will show:-



57) Press **0** twice. The display will show:-



This concludes the system programming.

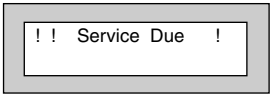
Engineer Reset (After an Alarm)

If the Reset Mode(s) has been programmed for Engineer follow the steps below to reset the system.

1) The user must first unset the system. Details in **User** manual.

2) Enter the engineer code followed by **RESET**.

It should be noted that if the Tamper reset has been programmed for Engineer Reset the display will show:-



for 10 seconds each time the user attempts to set the system. The procedure as shown above is used to Reset this condition.

Anti-Code Reset (After Alarm or Service Timer Lockout)

To effect an Anti-Code Reset the engineer will require either a Anti-Code Generator or Anti-Code Software running on a P.C.

1) Ask the customer to enter the user code and then press **(Yes)**.

2) A four digit seed code will be shown by the display.

3) Enter this seed code into either the Generator or P.C. Software. An Anti-Code will be given.

4) Ask the customer to enter this Anti-Code. The system is now reset.

Note: *Service Timer Lockout will have been indicated to the user. Two weeks notice would have been given prior to Lockout. Resetting this via Anti-Code will give another two weeks service. A service visit should be arranged and the Service Timer should be re-programmed to the required number of weeks.*

Resetting to Factory Defaults

If required the unit may be reset to factory defaults. It should be noted that if the engineer code begins with a 9 it will not be defaulted.

1) Remove all power from the system.

2) Wait 10 seconds.

3) Re-Apply power to the system.

4) As soon as the display becomes active enter **1 4 7 X (No)**.

Log Mode

The log may store 256 events with time and date stamp and cannot be changed (EN only).

Note: ***If programming a non EN control panel, the Log modes may be changed. Please follow the steps outlined below.***

Changing Log Modes (Non EN Panels only)

a) 256 events without Time & Date stamps

or

b) 64 events with Time & Date stamps (Default setting)

To change the Log Mode:-

1) Remove all power from the system.

2) Wait 10 seconds.

3) Re-Apply power to the system.

4) As soon as the display becomes active enter **0 0 7 X (No)**. For 256 events.

or

As soon as the display becomes active enter **9 1 7 X (No)**. For 64 events.

Note: ***When the Log Mode is changed the message ' L/ Rst ' will be added to the Log***.

Fault	Action
Control Panel will not power up from the mains supply.	Check / replace fuse in fused spur or mains connection block. Also check all connections for trapped insulation.
Display shows zone fault and panel will not set after the exit time has expired.	Remove zone wires from the problem zone at the control panel and replace with a link. Check if panel now sets. If all is O.K. the problem is external to the control panel. Check with a multimeter the continuity of the wires you removed from the zone. Also check that there is no short circuits between the zone wires and the tamper loop or the zone wires and 0v (Earth).
Control Panel gives tamper fault.	Check Lid tamper spring on control panel. Link out the tamper loops (bell & global) to determine what tamper loop the fault is on. If all is O.K, the problem is external to the panel. Using a multimeter check for continuity and also short circuits to other cores in the same cable. Also check that the service timer has not expired.
Tripping a detector does not cause an alarm and is not registered at the control panel.	Check for short circuits on the zone wiring. If two detectors are fitted to the same zone try tripping both of them at the same time, if the zone activates when this is done the alarm contacts of the detectors have been wired in parallel when they should be wired in series.
External Sounder does not sound.	Use a multimeter or small buzzer across the Bell +&- terminals to determine if the control panel is triggering the bell. If all is O.K check the operation of the sounder by wiring it to the system battery.
External Sounder rings without the control panel triggering it.	Disconnect the Nicad battery from the SAB of the sounder. Check to see if the hold off voltage is present at the sounder, if not check/replace the control panel fuse. If fuse is O.K check hold off voltage at the control panel. If hold off voltage is O.K check/replace the wiring to the bell.
Bell Box will not sound after first power up.	Some Bell Boxes require all tampers to be closed before they will sound. Close all tampers and retry.

Fault	Action
Tamper is not tripped when a detector cover is removed.	Check to see if all tampers are wired in series. If detector tampers have been wired in parallel they will all have to be removed before the tamper would trigger. Check for short circuits that may occur through staples piercing cables.
Detectors false alarm.	Check that the position of the detectors is in accordance with the manufacturers recommendations. In the case of a PIR ensure that the unit is not facing a window or is situated in a draughty location. In the case of a contact check the gap between the two halves and that there is no excessive movement in the protected item. In the case of a shock sensor ensure it is not bridging any joints. Check cable runs to ensure that they are not running parallel to any mains wiring (see good wiring practice).
Engineer and/or User codes have been forgotten.	The panel may be reverted to factory defaults (see Resetting to Factory Defaults). If the engineer code has been programmed with 9 as the first digit it will not be defaulted. In this case the unit must be returned to the factory.
I got confused whilst programming and don't know what settings have been programmed.	In this situation we would recommend that you revert to factory defaults.
I have various problems and think the control panel is faulty.	This is rare, the majority of faults are usually external to the control panel. If you think the panel is faulty please remove all the wiring from the panel and replace all the factory fitted links then check the panel again.

Specifications

Power Input: 230v a.c +/- 10% @50Hz

No. of Zones: CP8 = 8 LCD (+ 2 RKP Zones if 480 Text RKP used).

Max Loop Resistance: 2K Ohms

Loop Delay Time: 400 milliseconds

Fuses:

Mains Fuse:	125mA slow blow
F2 Misc Fuse:	250mA quick blow
F1 System Fuse:	1A quick blow
Battery Fuse:	2A Anti-Surge.

Low Voltage Output: 13.8v (typical) Regulated

Power Supply Rating: 1A*

Battery Sizes: 12v 1.2Ah, 2.0Ah, 3.0Ah & 7.0Ah

Quiescent Current:

Control Panel:	50mA
RKP:	40mA

Complies With: EN50131-1 PD6662 2004 CE tested

Conforms With: EMC Directive 89/336/EEC
LVD Directive 73/23/EEC

Log Size: 256 (Time & Date stamped - **EN Only**)
256 Events (No Time & Date stamp)
or
64 Events (Time & Date stamped - **Non EN** Panels)

Default Codes

Engineer:	1234
Master User:	5678

Number of Codes: 1 Engineer
9 Users on preset levels

Display Type: 32 Character LCD (2 x 16)

Method of Operation: Remote Keypad(s)

PGM 1 PGM1 terminals are an open collector output held at 12V through an integral 1k resistor. Max current sink into PGM 1 terminals is 50mA.

*Power Supply Rating

It should be noted that the eurösec CP8L has 1 Amp available for the full system. However, for the purpose of compliance to EN and PD6662 standard, the capacities of the power supply have to be specified differently.

For a Grade 2 system you have 72 hours to charge the battery. With the CP8L Control Panel, 90mA is available for battery charging. This defines a theoretical maximum standby battery capacity of 8.0Ah and a maximum of 666mA available for system power.

If a smaller capacity battery is used then the rating has to be reduced accordingly.
For example: If a 7Ah battery is used it will recharge in 72 Hrs and will theoretically provide 910mA (1000-90mA) for the system. However, the supply rating for that system under PD6662 is still 7.0Ah/12hrs = 583mA.

Sounders, detectors and other auxiliary items should be included when calculating current drawn by the system. Any damage caused through overloading the Control Panel Supply will not be covered by the warranty. We recommend that additional power supplies are used to supply detectors on long cable runs.

Customer Name	Customer Address
Tel No:	
Fax No:	
Installation Date	Installing Engineer(s)
Control Panel Location	RKP Location(s)
Zone 1 Location	Zone 5 Location
Zone 2 Location	Zone 6 Location
Zone 3 Location	Zone 7 Location
Zone 4 Location	Zone 8 Location

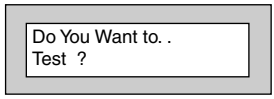
Changing the Engineer code

The engineer code may only be changed by use of the current engineer code. If the engineer code starts with a 9 the code will be 'locked in' defaulting the panel will have no effect on the engineer code. To program the engineer code proceed as follows:-

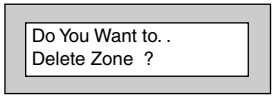
In order to access Engineer Mode the **User MUST** start to set the system, then the **Engineer** must enter the Engineer code **TWICE.**

When programming a non EN control panel, the Engineer does not require User authorisation to gain access to Engineer mode.

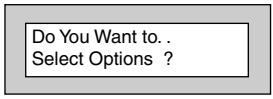
1) Enter the Engineer Code for the second time (**1234** default), followed by **X (No)**. The display will show:-



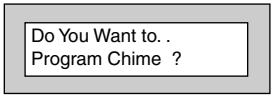
2) Press **X (No)**. The display will show:-



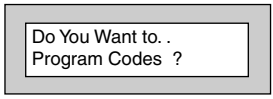
3) Press **X (No)**. The display will show:-



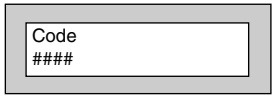
4) Press ↵ **(Yes)**. The display will show:-



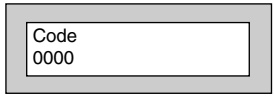
5) Press **X (No)**. The display will show:-



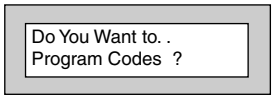
6) Press ↵ **(Yes).** The display will show:-



7) Press **X (No)**. The display will show:-



8) Enter the **four digit code** you require, followed by ↵ **(Yes)**. The display will show:-



9) Press **0** twice to return to the Unset condition.

Supplied By:-

eurösec

Technical Helpline
0161 655 5600

RISCO Group UK Ltd reserve the right to amend the software and features without prior notice